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1	Router plugins: a software architecture for next-generation routers  Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner February 2000 LEEE/ ACM Transactions on Networking (TON), Volume 8 Issue 1 Publisher: IEEE Press Full text available: ppdi(530,34 KB) Additional Information: full citation, reterences, cited by, index terms	Softv Train Onlin			
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	Traffic measurement is a critical component for the control and engine ering of communication networks. We argue that traffic measurement should make it possible to obtain the spatial flow of traffic through the domain, i.e., the paths followed by packets				
	Keywords: Hash functions, Internet traffic measurement, packet sampling, traffic engineering	Level			

3 Adaptive resource management for flow-based IP/ATM hybrid switching systems DevT Hao Che, San-qi Li, Arthur Lin The # October 1998 I EEE/ ACM Transactions on Networking (TON), Volume 6 Issue 5 defec Publisher: IEEE Press mana Full text available: pdf(570.85 KB) Additional Information: full citation, references, index terms auto 1 Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 21, Citation Count: 0 www.te

Keywords: adaptive resource management, cut-through switching, flow cache

management, flow classification, flow-based IP/ATM hybrid switching

 Predicting resource usage and estimation accuracy in an IP flow measurement collection infrastructure

Nick Duffield, Carsten Lund

October 2003 I MC '03: Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: Dpdf(362.83 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 33, Citation Count: 8

This paper describes a measurement infrastructure used to collect detailed IP traffic measurements from an IP backbone. Usage, i.e, bytes transmitted, is determined from raw NetFlow records generated by the backbone routers. The amount of raw data is ...

Keywords: bandwidth, estimation, sampling, variance

- 5 Algorithms and estimators for accurate summarization of internet traffic
- Edith Cohen, Nick Duffield, Haim Kaplan, Carsten Lund, Mikkel Thorup
  October 2007 | MC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet
  measurement

Publisher: ACM

Full text available: pdf(365.01 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 73, Citation Count: 0
Statistical summaries of traffic in IP networks are at the heart of network operation and are used to recover information on the traffic of arbitrary subpopulations of flows. It is therefore of great importance to collect the most accurate and informative ...

Keywords: data streams, ip flows, netflow, network management, sketches, subpopulation queries

- 6 Sketching unaggregated data streams for subpopulation-size queries
- Edith Cohen, Nick Duffield, Haim Kaplan, Carsten Lund, Mikkel Thorup
  - June 2007 PODS '07: Proceedings of the twenty-sixth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems

Publisher: ACM

Full text available: pdf(311.89 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 124, Citation Count: 1 IP packet streams consist of multiple interleaving IP flows. Statistical summaries of these streams, collected for different measurement periods, are used for characterization of traffic, billing, anomaly detection, inferring traffic demands, configuring ...

Keywords: IP flows, data streams, sketches, subpopulation size

- 7 Flow sampling under hard resource constraints
- Nick Duffield, Carsten Lund, Mikkel Thorup
- June 2004 SIGMETRICS '04/ Performance '04: Proceedings of the joint international

conference on Measurement and modeling of computer systems. Publisher: ACM

Full text available: pdf(246.84 KB) Additional Information: full citation, abstract, references, cited by, index

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 70, Citation Count: 8

Many network management applications use as their data traffic volumes differentiated by attributes such as IP address or port number. IP flow records are commonly collected for this purpose: these enable determination of fine-grained usage of network.

Keywords: IP flows, sampling, variance reduction

8 Bitmap algorithms for counting active flows on high speed links

Cristian Estan, George Varghese, Mike Fisk

October 2003 I MC '03': Proceedings of the 3rd ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: pxtl(330,81 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 79, Citation Count: 18

This paper presents a family of bitmap algorithms that address the problem of counting the number of distinct header patterns (flows) seen on a high speed link. Such counting can be used to detect DoS attacks and port scans, and to solve measurement ...

Keywords: counting flows, network traffic measurement

9 Flow sampling under hard resource constraints

Mick Duffield, Carsten Lund, Mikkel Thorup June 2004 ACM SI GMETRI CS Performance Evaluation Review, Volume 32 Issue 1 Publisher: ACM

Full text available: pxff(246.84 KB) Additional Information: ivil citation, abstract, references, cited by, index

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 70, Citation Count: 8

Many network management applications use as their data traffic volumes differentiated by attributes such as IP address or port number. IP flow records are commonly collected for this purpose: these enable determination of fine-grained usage of network...

Keywords: IP flows, sampling, variance reduction

10 Wire speed packet classification without teams: a few more registers (and a bit of

logic) are enough

Quinteng Dong, Suman Banerjee, Jia Wang, Dheeraj Agrawal June 2007 SIGMETRICS '07: Proceedings of the 2007 ACM SIGMETRICS international conference on Measurement and modeling of computer systems Publisher: ACM

Full text available: pdf(289.06 KB) Additional Information: full citation, abstract, references, index terms

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Packet classification is the foundation of many Internet functions such as QoS and

security. A long thread of research has proposed efficient software-based solutions to this problem. Such software solutions are attractive because they require cheap ...

Keywords: packet classification, rule cache, rule evolution

11 Estimating flow distributions from sampled flow statistics

Nick Duffield, Carsten Lund, Mikkel Thorup

August 2003 SI GCOMM '03: Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications. Publisher: ACM

Full text available: pdf(333,29 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 91, Citation Count: 22

Passive traffic measurement increasingly employs sampling at the packet level. Many high-end routers form flow statistics from a sampled substream of packets. Sampling is necessary in order to control the consumption of resources by the measurement operations. ...

Keywords: IP flows, maximum likelihood estimation, packet sampling

12 Wire speed packet classification without teams: a few more registers (and a bit of logic) are enough

Qunteng Dong, Suman Banerjee, Jia Wang, Dheeraj Agrawal
June 2007 ACM SIGMETRICS Performance Evaluation Review. Volume 35 Issue 1

Publisher: ACM
Full text available: R pdf(289.96 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 229, Citation Count: 0
Packet classification is the foundation of many Internet functions such as QoS and

reduct classification is the foundation of many interpert infections such as dos and security. A long thread of research has proposed efficient software-based solutions to this problem. Such software solutions are attractive because they require cheap ...

Keywords: packet classification, rule cache, rule evolution

13 Bitmap algorithms for counting active flows on high-speed links Cristian Estan, George Varghese, Michael Fisk

October 2006 | EEE/ ACM Transactions on Networking (TON), Volume 14 Issue 5 Publisher: IEEE Press

Full text available: pdf(952-17-K8) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 89, Citation Count: 0

This paper presents a family of bitmap algorithms that address the problem of counting the number of distinct header patterns (flows) seen on a high-speed link. Such counting can be used to detect DoS attacks and port scans and to solve measurement problems. ...

Keywords: counting distinct elements, traffic measurements

14 Lightweight application classification for network management Hongbo Jiang, Andrew W. Moore, Zihui Ge, Shudong Jin, Jia Wang August 2007 I NM '07: Proceedings of the 2007 SIGCOMM workshop on Internet network management
Publisher: ACM

Full text available: 📆 pxlf(120.19 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 77, Citation Count: 0
Traffic application classification is an essential step in the network management process to provide high availability of network services. However, network management has seen limited use of traffic classification because of the significant overheads ...

Keywords: flow classification, internet traffic, traffic identification

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